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Memorandum

From: Steve Willis
To: Wayne Miller
Date: January 4, 2017
Subject: Site visit to observe well drilling activities at Former Williams AFB Site ST012.

Wayne:

This memo summarizes my visit to Site ST012 on Wednesday January 4.

Drilling of soil boring SB18 began on Wednesday morning. The boring is located in the parking area on the east of Sossaman Rd., approximately half-way between wells LSZ55 and W37. When I arrived at the site on Wednesday afternoon, the boring had been drilled to 160-ft. Cuttings to that depth did not exhibit indications of hydrocarbon impact. The highest PID reading in vadose soils was 10.9 ppm at 20-ft. bgs. Groundwater was encountered between 145 and 146-ft. I remained onsite through the completion of the boring at 236-ft. and made the following observations:

- A PID reading of 6.7 ppm was recorded at the soil-water interface in the Cobble Zone at approximately 145.8-ft.
- A very slight hydrocarbon odor was detected at approximately 178-ft. The PID reading was 3.6 ppm.
- PID readings were generally <2 ppm through the UWBZ and LPZ to a depth of approximately 205-ft.
- Strong hydrocarbon odors were noted at about 205-ft. The PID reading was 423 ppm and a positive dye test was obtained in silty sand, which appeared to be the top of the LSZ.
- Strong hydrocarbon odors continued to approximately 215-ft. A positive dye test and PID reading of 363 ppm was obtained at 210-ft. At 215-ft. the PID reading was 199 ppm. A dye test conducted at 216-ft. appeared negative.

- Soil samples were collected for laboratory analysis at 205 and 210-ft.
- Hydrocarbon odors and PID readings decreased rapidly below 216-ft.
- The boring was terminated at a depth of 236-ft. in clayey sand.

The AMEC field geologist stated he would fax the boring results to Stu Pearson and wait for instructions on whether to set a well at this location or backfill the boring. Should the boring be backfilled, the nearest step-out location would likely be 200+ ft. east behind the buildings on the east side of the parking lot.

I left the site at approximately 5:30 pm.

Site photos are included on the following pages. Please contact me if you have comments or questions regarding this memo.

Thank you,

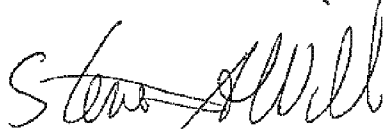
A handwritten signature in black ink, appearing to read "Steve Will". The signature is written in a cursive, flowing style with a large initial "S" and a prominent "W".



Photo 1. Transition from the vadose zone to the saturated zone at approximately 145.8-ft.



Photo 2. Transition from the Cobble Zone to the Upper Water-Bearing zone at approximately 160-ft.



Photo 3. Positive dye test and soil sampling equipment at 205-ft. (number on cap below 205 marker is the sample time)



Photo 4. Positive dye test and soil sampling equipment at 210-ft. (number on cap below 210 marker is the sample time)



Photo 5. Negative dye test at 216-ft.